

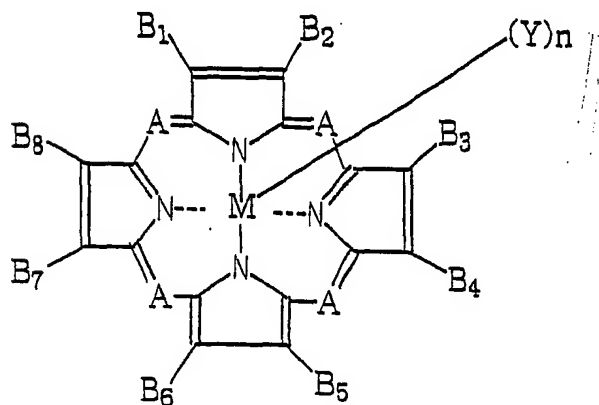
LISTING OF THE CLAIMS

1-32. Canceled.

33. (New) An organic electroluminescent (EL) device comprising: at least one organic EL multi-layer comprising a luminescent layer and one or more of a hole injecting layer, a hole transporting layer, an electron transporting layer or an electron injecting layer between a first electrode and a second electrode, and a layer I positioned between said second electrode and said at least one organic EL multi-layer, said layer I comprising at least one first material selected from porphyrinic compounds and further comprising a layer II including at least one second material selected from the group consisting of an alkali metal, an alkaline earth metal, and a compound thereof wherein said layer II is positioned between said layer I and said organic EL multi-layer or said layer II is positioned between said second electrode and said layer I.

34. (New) The device as claimed in claim 33, wherein said at least one first material has the following structure:

CHEMICAL FORMULA V



where:

A each independently denotes $-N =$ or $-C(R) =$, and R is hydrogen, alkyl, alkoxy, aralkyl, alkaryl, aryl, or a heterocyclic group;

M comprises an element selected from groups IA, IIA, IIIA and IVA, and the third, fourth, fifth and sixth periods of the periodic table;

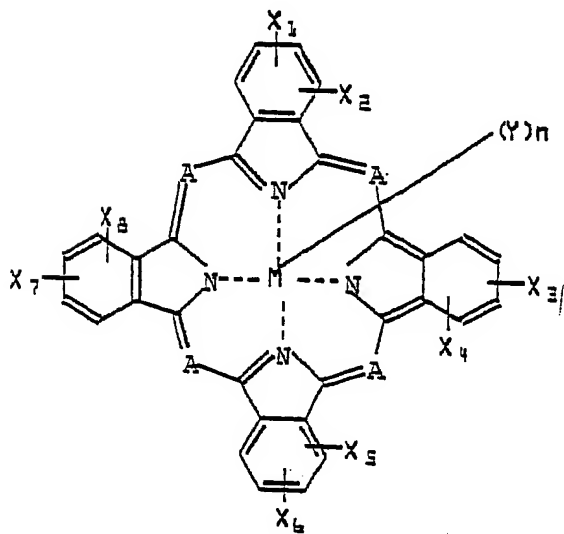
Y is alkoxy, phenoxy, alkylamino, arylamino, an alkylphosphinic group, an arylphosphinic group, alkylsulfur or arylsulfur, or an element selected from groups VIA and VIIA of the periodic table;

n is an integer of 0, 1, or 2; and

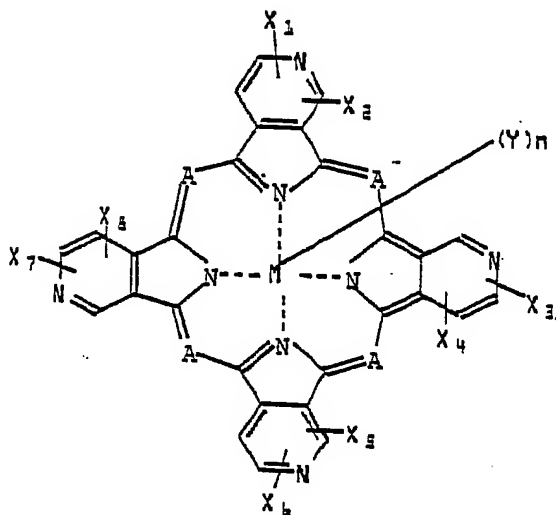
B₁, through B₈ each independently represent hydrogen, alkyl, aryl, alkoxy, aryloxyalkyl, hydroxy, hydroxyalkyl, aralkyl, alkylamino, arylamino, alkylthiol, arylthiol, nitroalkyl, alkylcarbonyl, alkoxy carbonyl, phenyl, amino, cyano, naphthyl, alkaryl, a halogen or a heterocyclic group, or at least one among pairs of adjacent substituents of B₁, through B₈ form an unsaturated or saturated five, six, or seven-numbered ring.

35. (New) The device as claimed in claim 33, wherein said at least one first material comprises a compound selected from the group represented by chemical formulas III and IV as shown below:

CHEMICAL FORMULA III



CHEMICAL FORMULA IV



where:

A each independently denotes $-N =$ or $-C(R) =$; and R is hydrogen, alkyl, alkoxy, aralkyl, alkaryl, aryl, or a heterocyclic group;

M comprises an element selected from groups IA, IIA, IIIA and IVA, and the third, fourth, fifth and sixth periods of the periodic table;

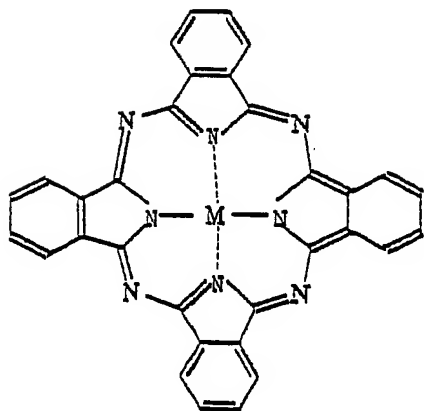
Y is alkoxy, phenoxy, alkylamino, arylamino, an alkylphosphinic group, an arylphosphinic group, alkylsulfur or arylsulfur, or an element selected from groups VIA and VIIA of the periodic table;

n is an integer of 0, 1, or 2; and,

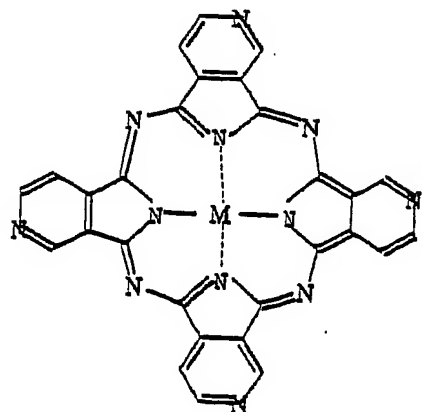
X₁, through X₈ each independently represent hydrogen, alkyl, aryl, alkoxy, aryloxyalkyl, hydroxy, hydroxyalkyl, aralkyl, alkylamino, arylamino, alkylthiol, arylthiol, nitroalkyl, alkylcarbonyl, alkoxy carbonyl, phenyl, amino, cyano, naphthyl, alkaryl, a halogen or a heterocyclic group, or at least one among pairs of adjacent substituents of X₁, through X₈ form an unsaturated or saturated five, six, or seven-numbered ring.

36. (New) The device as claimed in claim 33, wherein said at least one first material comprises a compound selected from the group represented by chemical formulas V and VI as shown below:

CHEMICAL FORMULA V



CHEMICAL FORMULA VI



where:

M is one of Co, AlCl, Cu, 2Li, Fe, Pb, Mg, SiCl₂, 2Na, Sn, Zn, Ni, Mn, VO, 2Ag, MnCl, SnCl₂, and TiO.

37. (New) The device as claimed in claim 33, wherein said layer II is formed on a top portion of layer I and comprises Li₂O.

38. (New) The device as claimed in claim 33, wherein said layer I has a thickness of from about 0.5nm to about 50nm and said layer II has a thickness of from about 0.2nm to about 3nm.